H HiTRON

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UNIVERSAL INPUT AC-DC MEDICAL APPLICATION OPEN FRAME SINGLE & MULTI-OUTPUT 100 WATTS INTERNAL SWITCHING POWER SUPPLIES HMI100 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT 4.5"x 2.5"x1.2" PCB FORMAT
- MEET MEDICAL STANDARD EN 60601-1/ UL 60601-1
- EMI MEET EN 55011 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac.

Input Connector: V-M connector.

Input Frequency: 47-63Hz.

Inrush Current: Typ. 9.68Arms @230Vac.

Input Current: Typ. 1.8A@115Vac, 0.9A @230Vac.

Dielectric Withstand: Meet IEC 60601-1.

EMI: Meet EN55011 & CISPR Class B.

Hold-up Time: Typ. 12.8mS @115Vac, 76mS @ 230Vac.

Earth Leakage: Less than 0.189mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart. Output Current: See Ratings Chart. Output Connector: V-M connector. Output Wattage: Typ. 100 watts. Line Regulation: Typ. ±0.5%.

Load Regulation: Main VO1 typ $\pm 1\%$.

Aux. VO2 typ. ±1%. Aux. VO3 typ. ±5%. Aux. VO4 typ. ±5%. Typ. 1.0% peak to peal

Noise & Ripple: Typ. 1.0% peak to peak. OVP: Built-in at main output (Latch). Adjustability: Available at VO1 and VO2.

Overload Protection (OLP):

Fully protected against outputs overload and short circuit. Typ. OLP set at 110-150% of rating output power.

Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 74-80% (Various with output voltage).

Switching Frequency: 68 KHz.

Circuit Topology: Single-Forward circuit.

Multiple-Fixed freq. flyback circuit.

Transient Response: Output voltage returns in less than 14-44mS following a 25% load change.

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Safety Standard: Meet Medical standards UL 60601-1/

EN 60601-1 Class I.

Operating Temperature: 0 to +50 °C under forced air flow for full load (Various with output voltage)

 $for full \ load. (Various \ with \ output \ voltage).$

Storage Temperature: -20 to +85°C. **Temperature Coefficient:** Typ. 0.05%/°C. **Cooling:** Recommended 24CFM cooling fan for

full rating load.

Power Density: 7.4 Watts / Cubic Inch. **Construction:** 4.5"x2.5"x1.2" PCB format.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.





OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT (under 20CFM or 800LFM)

MODEL NO.	MAIN +VO1 ★@						
MODEL NO.	Тур.	Volt.					
HMI100-S033160	16.0A	+3.3 V					
HMI100-S050200	20.0A	+5.0 V					
HMI100-S070143	14.3A	+7.0 V					
HMI100-S090111	11.1A	+9.0 V					
HMI100-S120075	7.5A	+12.0 V					
HMI100-S150060	6.0A	+15.0 V					
HMI100-S180050	5.0A	+18.0 V					
HMI100-S240041	4.1A	+24.0 V					
HMI100-S330030	3.0A	+33.0 V					
HMI100-S480021	2.1A	+48.0 V					

DUAL OUTPUT (under 20CFM or 800LFM)

MODEL NO.	MAIN +	VO1 ★@	AUX. + VO2 @			
MODEL NO.	Тур.	Volt.	Тур.	Volt.		
HMI100-D050I	12.0A	+ 5.0V	3.0A	+12.0V		
HMI100-D050K	12.0A	+5.0V	3.0A	+15.0V		

Symbol: "★OVP built-in "@" Adjustable

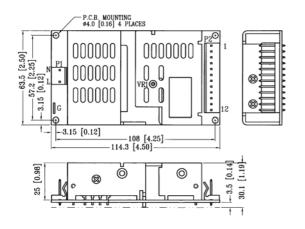
TRIPLE OUTPUT (under 20CFM or 800LFM)

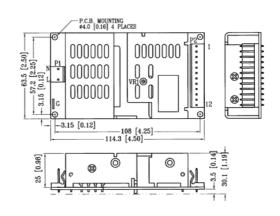
MODEL NO.	MAIN +V	VO1 ★@	AUX.	+VO2@	AUX. +/-VO3		
MODEL NO.	Тур.	Volt.	Тур.	Volt.	Тур.	Volt.	
HMI100-T033EI	8.0A	+3.3V	7.0A	+5.0 V	0.8A	+12.0 V	
HMI100-T050DI	8.0A	+5.0V	6.0A	+3.3 V	0.8A	+12.0 V	
HMI100-T050II	10.0A	+5.0V	3.0A	+12.0 V	0.8A	-12.0 V	
HMI100-T050IE	10.0A	+5.0V	3.0A	+12.0 V	0.8A	-5.0 V	
HMI100-T050KK	10.0A	+5.0V	2.5A	+15.0 V	0.8A	-15.0 V	
HMI100-T050KE	10.0A	+5.0V	3.0A	+15.0 V	0.8A	- 5.0 V	
HMI100-T050MI	10.0A	+5.0V	1.5A	+24.0 V	0.8A	-12.0 V	

QUAD OUTPUT (under 20CFM or 800LFM)

MODEL NO.	MAIN +	VO1 ★@	AUX	+VO2@	AUX	. VO3	AUX. +VO4		
MODEL NO.	Тур.	Volt.	Typ.	Volt.	Тур.	Volt.	Тур.	Volt.	
HMI100-Q033EII	7.0A	+3.3V	8.0A	+5.0 V	0.5A	+12.0V	0.5A	-12.0 V	
HMI100-Q050DII	8.0A + 5.0V		7.0A	+3.3 V	0.5A + 12.0V		0.5A	-12.0 V	
HMI100-Q050IIE	10.0A	+5.0V	3.0A	+12.0 V	0.8A	-12.0V	0.5A	-5.0 V	
HMI100-Q050KKE	10.0A	+5.0V	3.0A	+15.0 V	0.8A	-15.0V	0.5A	-5.0 V	
HMI100-Q050MII	10.0A	+5.0V	1.5A	+24.0 V	0.8A	+12.0V	0.5A	-12.0 V	
HMI100-Q050MKK	10.0A	+5.0V	1.5A	+24.0 V	0.8A	+15.0V	0.5A	-15.0 V	

MECHANICAL DIMENSIONS: MM [INCHES]





WEIGHT: 240g (8.11 Oz.)

INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

IN CI & CONNECTORS IN ASSIGNMENT																	
	AC INPUT		SINGLE DUAL			TRIPLE			QUAD								
ASSIGNMENT	AC-L	AC-N	AC-G	VO1	DC COM	VO1	VO2	DC COM	VO1		VO3	COM	VO1	VO2	VO3	VO4	DC COM
CNTR/PIN#	P1-L	P1-N	G	P2-1,2 P2-3 4	P2-5,6 P2-7 8	P2-1,2 P2-3 4	P2-9,10	P2-5,6 P2-7 8	P2-1,2 P2-3 4	P2-9,10	P2-12	P2-5,6 P2-7 8	P2-1,2 P2-3 4	P2-9,10	P2-11	P2-12	P2-5,6 P2-7.8

Mating connector: P1,2 Molex # 5195 or 5239 series.

查询"HMI100-T050KK"供应商



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